

CANADA

MINERAL COMMODITY FLOWS

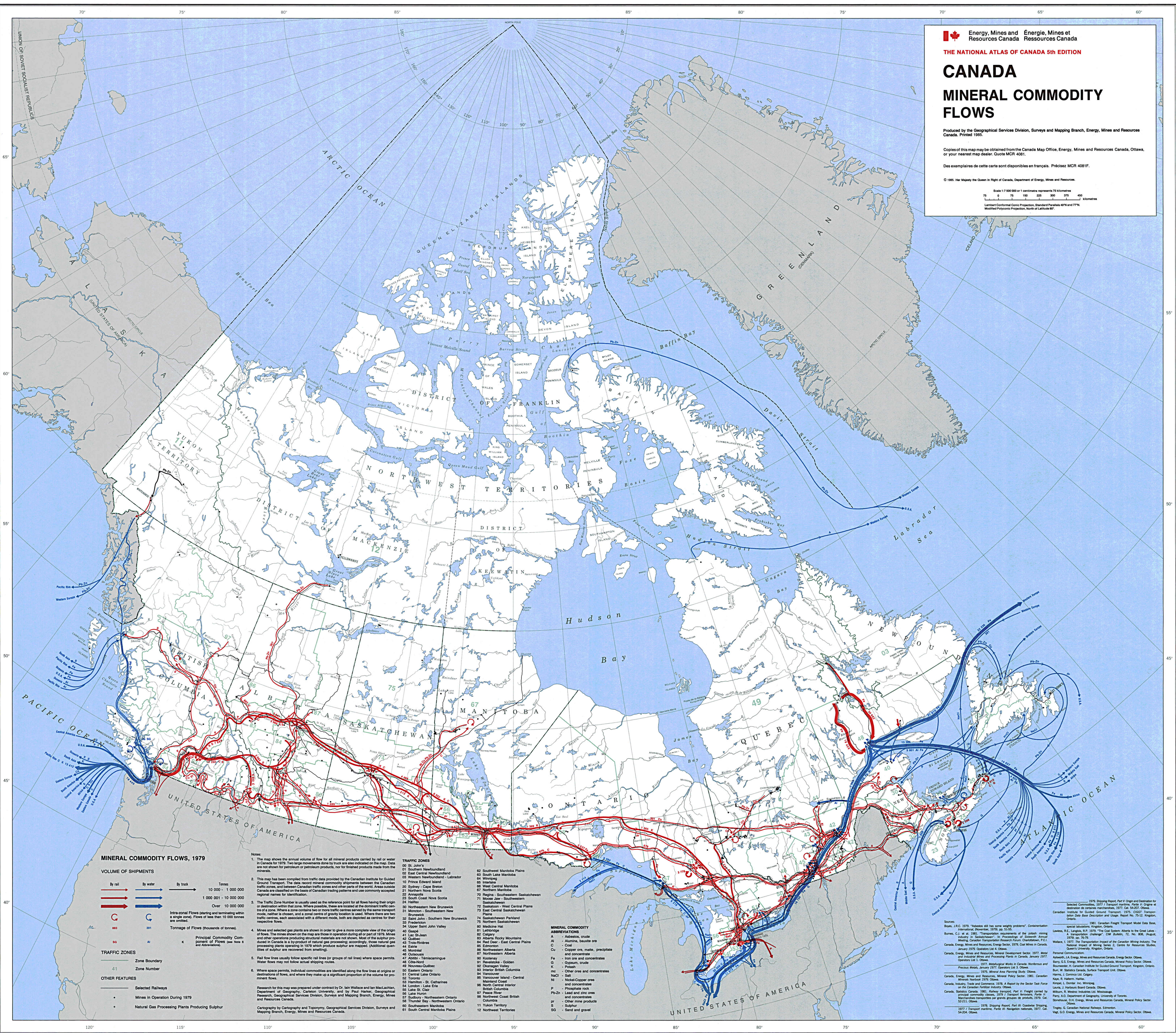
Produced by the Geographical Services Division, Surveys and Mapping Branch, Energy, Mines and Resources Canada. Printed 1985.

Copies of this map may be obtained from the Canada Map Office, Energy, Mines and Resources Canada, Ottawa, or your nearest map dealer. Quote MCR 4081.

Des exemplaires de cette carte sont disponibles en français. Précisez MCR 4081F.

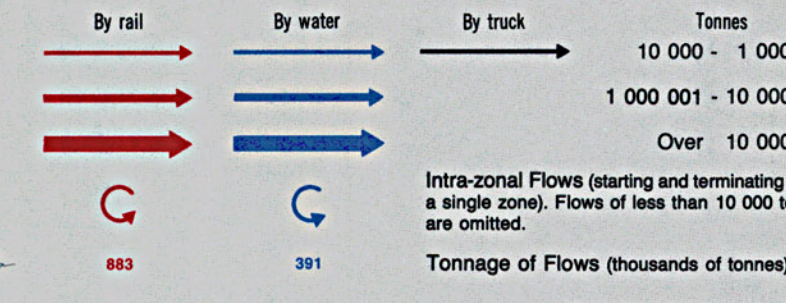
© 1985. Her Majesty the Queen in Right of Canada, Department of Energy, Mines and Resources.

Scale 1:7 500 000 or 1 centimetre represents 75 kilometres
 75 0 75 150 225 300 375 450
 Kilometres
 Lambert Conformal Conic Projection, Standard Parallels 49°N and 77°N
 Modified Polyconic Projection, North of Latitude 87°

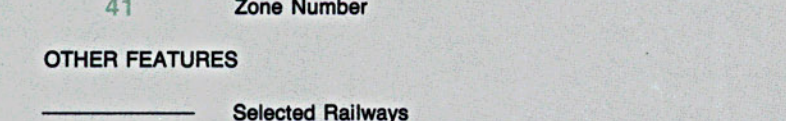


MINERAL COMMODITY FLOWS, 1979

VOLUME OF SHIPMENTS



TRAFFIC ZONES



- Notes:
- The map shows the annual volume of flow for all mineral products carried by rail or water in Canada for 1979. Two large movements done by truck are also indicated on the map. Data are not shown for petroleum or petroleum products, nor for finished products made from the minerals.
 - This map has been compiled from traffic data provided by the Canadian Institute for Guided Ground Transport. The data record mineral commodity shipments between the Canadian traffic zones, and between Canadian traffic zones and other parts of the world. Areas outside Canada are classified on the basis of Canadian trading patterns and use commonly accepted regional names for identification.
 - The Traffic Zone Number is usually used as the reference point for all flows having their origin or destination within that zone. Where possible, these are located at the dominant traffic centre of a zone. Where a zone contains two or more traffic centres served by the same transport mode, neither is chosen, and a zonal centre of gravity location is used. Where there are two traffic centres, each associated with a different mode, both are depicted as centres for their respective flows.
 - Mines and selected gas plants are shown in order to give a more complete view of the origin of flows. The mines shown on the map are those in operation during all or part of 1979. Mines and other operations producing structural materials are not shown. Most of the sulphur produced in Canada is a by-product of natural gas processing; accordingly, those natural gas processing plants operating in 1979 which produce sulphur are mapped. (Additional quantities of sulphur are recovered from smelting.)
 - Rail flow lines usually follow specific rail lines (or groups of rail lines) where space permits. Water flows may not follow actual shipping routes. Water flows may not follow actual shipping routes.
 - Where space permits, individual commodities are identified along the flow lines at origins or destinations of flows, and where they make up a significant proportion of the volume for prominent flows.
- Research for this map was prepared under contract by Dr. Iain Wallace and Ian MacLachlan, Department of Geography, Carleton University, and by Paul Harker, Geographical Research, Geographical Services Division, Surveys and Mapping Branch, Energy, Mines and Resources Canada.
- Cartography by Cartography and Toponymy, Geographical Services Division, Surveys and Mapping Branch, Energy, Mines and Resources Canada.

- #### TRAFFIC ZONES
- 00 St. John's
 - 01 Southern Newfoundland
 - 02 East Central Newfoundland
 - 03 Southern Newfoundland - Labrador
 - 04 Prince Edward Island
 - 05 Sydney - Cape Breton
 - 06 Northern Manitoba
 - 07 Regina - Southeastern Saskatchewan
 - 08 Upper St. John Valley
 - 09 Medicine Hat
 - 10 Saskatchewan - West Central Plains
 - 11 Moosehorn - Southeastern New Brunswick
 - 12 Southern New Brunswick
 - 13 Fredericton
 - 14 Upper St. John Valley
 - 15 Gaspe
 - 16 Lac-Sabin
 - 17 DuBois
 - 18 Trois-Rivières
 - 19 Estrie
 - 20 Montreal
 - 21 Outaouais
 - 22 Montérégie - Témiscamingue
 - 23 Côte-Nord
 - 24 Nouveau-Québec
 - 25 Eastern Ontario
 - 26 Central Lake Ontario
 - 27 Toronto
 - 28 Hamilton - St. Catharines
 - 29 Lake St. Clair
 - 30 Lake Huron
 - 31 Sudbury - Northeastern Ontario
 - 32 Thunder Bay - Northwestern Ontario
 - 33 Southeastern Manitoba
 - 34 South Central Plains
 - 35 Southwest Manitoba Plains
 - 36 South Lake Manitoba
 - 37 Winnipeg
 - 38 Interlake
 - 39 West Central Manitoba
 - 40 Northern Manitoba
 - 41 Regina - Southeastern Saskatchewan
 - 42 Medicine Hat
 - 43 Saskatchewan - West Central Plains
 - 44 Moosehorn - Southeastern New Brunswick
 - 45 Plains
 - 46 Saskatchewan Parkland
 - 47 Northern Saskatchewan
 - 48 Medicine Hat
 - 49 Lethbridge
 - 50 Calgary
 - 51 Alberta Rocky Mountains
 - 52 Red Deer - East Central Plains
 - 53 Edmonton
 - 54 Northwest Alberta
 - 55 Northern Alberta
 - 56 Kootenay
 - 57 Revelstoke - Golden
 - 58 Okanagan Valley
 - 59 Interior British Columbia
 - 60 Vancouver
 - 61 Mainland Coast - Central
 - 62 Hamilton - St. Catharines
 - 63 North Central Interior
 - 64 British Columbia
 - 65 Fraser River
 - 66 Northwest Coast British Columbia
 - 67 Yukon Territory
 - 68 South Central Plains

- #### MINERAL COMMODITY ABBREVIATIONS
- A - Asbestos, crude
 - Al - Alumina, bauxite ore
 - C - Coal
 - Co - Copper ore, matte, concentrates
 - Fe - Iron ore and concentrates
 - G - Gypsum, crude
 - K - Potash
 - nc - Other ores and concentrates
 - NaCl - Salt
 - Ni - Nickel-Copper ore and concentrates
 - P - Phosphate rock
 - Pb-Zn - Lead and zinc ores and concentrates
 - pr - Other mine products
 - S - Sulphur
 - SG - Sand and gravel

Selected Commodities, 1977. Transport Inventory, Part IV. Origin and Destination for destination of commodities. 1977. Cat. 54-207. Ottawa: Institute for Guided Ground Transport, 1979. CIGGT. Transportation Data Base Descriptor and Usage. Report No. 75-12. Kingston, Ontario.

1981. Canadian Freight Transport Model Data Base. Special Information. Kingston, Ontario.

Lewis, R.E., Langdon, R.P. 1979. "The Coal System, Alberta to the Great Lakes - A Transportation Challenge". CIG Bulletin, 72, No. 928, August, 1979, pp. 76-79.

Wallace, I. 1977. The Transportation Impact of the Canadian Mining Industry. The National Impact of Mining Series 2. Centre for Resources Studies, Queen's University, Kingston, Ontario.

Personal Communication:

Aparna, J.L. Energy, Mines and Resources Canada, Energy Sector, Ottawa.

Berry, G.S. Energy, Mines and Resources Canada, Mineral Policy Sector, Ottawa.

Bromhead, H. Canadian Institute for Guided Ground Transport, Kingston, Ontario.

Burn, W. Statistics Canada, Surface Transport Unit, Ottawa.

Harris, J. Cominco Ltd., Calgary.

Kap, R. Inco, Hamilton.

Kinosh, L. Dorel Inc., Winnipeg.

Lewis, J. Hollow Board Canada, Ottawa.

Milburn, R. Western Resources Ltd., Mississauga.

Perry, A.C. Department of Geography, University of Toronto.

Stoneman, D.H. Energy, Mines and Resources Canada, Mineral Policy Sector, Ottawa.

Treple, G. Canadian National Railway, Edmonton.

Vogt, G.O. Energy, Mines and Resources Canada, Mineral Policy Sector, Ottawa.

1977. Transport Inventory, Part III. Navigation Inventory, 1977. Cat. 54-204. Ottawa.